Selected Data on the Operations of U.S. Affiliates of Foreign Companies, 1977

THIS article presents data for 1977 from a new annual sample survey on the operations of U.S. affiliates of foreign companies. The data cover affiliates balance sheets and income statements, selected financial data by transactor, landownership, plant and equipment, employment and employee compensation, merchandise trade, and research and development expenditures. Estimates of growth for 1974-77 for a number of key items are also presented; 1974 data were from BEA's last benchmark survey of foreign direct investment in the United States.

These data supplement those on the foreign direct investment position and related international transactions that are published unnually, usually in the August issue of the Survey of Current Business. The August articles focus on the relationship between U.S. affiliates and their foreign parents and cover the foreign parents' transactions and positions with their U.S. affiliates. This article focuses on the operations of the U.S. affiliates themselves, including their transactions and positions with

Nors.—The survey was conducted under the supervision of James L. Bomkomp, Chief, Direct Investment in the United States Branch, International Investment Division. Beverly A. Peeser was project leader for editing and processing the survey forms. Arnold Cilbert and Richard Mantery designed the computer programs for data retrieval and analysis. persons other than their foreign parents. For example, the direct investment position, as shown in the August articles, is equal to foreign parents' equity in and net outstanding loans to their U.S. affiliates; U.S. affiliates' total assets, as shown in this article, are equal to the sum of total owners' equity held by both foreign parents and all other persons and total liabilities owed to both foreign parents and all other persons.

Highlights of this article are:

- In terms of most measures, such as employment and landownership, U.S. affiliates accounted for a small share of the total U.S. economy. Their share of total U.S. merchandise trade, however, was relatively large.
- U.S. affiliates' assets were \$131.5 billion at yearend 1977. Almost three-fourths of the total was accounted for by affiliates with parents in the Netherlands, Canada, the United Kingdom, Germany, and Japan. By industry, 80 percent was accounted for by affiliates in manufacturing, wholesale trade, petroleum, and insurance.
- U.S. affiliates' liabilities were \$90.7 billion. Over 80 percent of both their current liabilities and long-term debt were to U.S. persons.
- The gross book value of affiliates' land was \$7.9 billion. Affiliates owned 5.6 million acres and leased 28.8 million acres. By State, affiliates owned the largest number of acres in Tennessee, Nevada, Colorado, Wisconsin, and New Mexico. Land used for agricultural purposes accounted for 3.1 million of the acres owned and 1.6 million of the acres leased.
- Affiliates employed 1,122,207 persons. Their employment was largest

- in New York, California, and New Jersey. Manufacturing affiliates' employment was largest in the same three States.
- For manufacturing affiliates, the hourly wage rate of production workers was \$5.81.
- There was considerable variation in growth in the key items examined.
 For example, employment of affiliates grew at an annual rate of about 3 percent, while employee compensation grew at an annual rate of 13.2 percent.

The article is organized as follows: The first section describes the sample and its relationship to the affiliate universe and to all U.S. businesses. The second briefly discusses the distribution of total assets by country of foreign parent and by industry of affiliate, and presents additional data for selected items by country of foreign parent. All of the remaining sections except the last focus on data disaggregated by industry of affiliate; three of these—those that cover landownership, plant and equipment, and employment-discuss data disaggregated by State and region as well. The last section briefly discusses growth for 1974–77 for a number of key items.

The Sample

The sample for the 1977 survey consists of affiliates—other than banks—that had total assets, sales, or net income greater than \$5 million or that owned 200 or more acres of U.S. land in 1977.* For such affiliates, reporting was

^{2.} A U.S. collisio is a U.S. business enterprise in which a foreign person had a direct or indirect interest of 10 persons or more. Becames furnish owners are smallly buildess opterprises, they are referred to at "compenies," although the legal term "person" also includes individuals, estates, trusts, governments, or other organizations.

See, for example, Gregery C. Feach and L. A. Lupe, "Farsign Direct Investment in the United States in 1878," in the August 1979 issue of the Suzyer or Outsito'r Supress.

^{3.} Balance cheets and related financial data on U.S. bank affiliates are collected by the Federal Reserve System. See "Nearthly Report of Conditions for U.S. Agencies, Branches, and Demestic Hanking Subsidiaries of Foreign Banks," Based of Constructs of the Federal Reserve System.

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Table L-Total Assets of U.S. Affiliates at Year and 1977 1

[Millions of dollars)

	i		Developed countries								Developing countries			
	All erosa	Total	Camada	France	Germeny	Nother- lands	United Kingdom	Switzer- land	Jepen	Other	Total	Latha America	Olber	
All judgeties	181,589	138,384	10, 530	3, 120	20,489	29,634	10,439	7,491	15,533	7,712	11, p.	11,997	1,346	
Agriculture and forestry 1 Mining Fetralista Manufacturing Wholesale trade	3,555 21,834	406 (D) 24,700 33,607 25,617	38 1,479 1,708 4,298 1,254	10 83 (b) \$ 190	29 121 (P) 0, 025 2, 678	24 (D) JU, 198 4, 998 2, 096	76 (⁽²⁾) 708 6,402 8,072	(9) (9) 3,972 1,973	(P) 607 1-971 1-1-643	173 28 1,667 1,768 1,215	297 (b) 1,128 4,178 2,691	394 (P) 1,124 3,906 1,697	8 4 271 194	
Batell (rade, Finance, except banking, Insurance, Real solute and combined offices. Other	7,384	8,094 0,876 (U) 2,841 8,194	(P) 790 5,605 1,116 (b)	888	(P) 285 285 (P) 75	(P) 216 770 649 874	(b) 1,069 5,362 662 (D)	(b) 78 1,745 (b) 221	57 41 117 278 (P)	(b) 428 (b) 82	449 407 (P) 1,801 431	(D) 196 (D) L, 847 463	(P) 211 (P) 454 169	

Suppressed to avaid dississure of data of individual companies.
 Excludes brake.

mandatory under the International Investment Survey Act of 1976. In BEA's surveys, U.S. affiliates are required to report on a consolidated basis; the consolidation for a given affiliate has to include all other affiliates owned more than 50 percent by that affiliate. Over 1,900 reports were filed with BEA; they cover approximately 5,800 U.S. affiliates.

The report of a consolidated enterprise may cover operations in more than one industry. Where this is the case, the enterprise is classified in the single industry in which its sales are largest. Thus, the industry classification of the enterprise is not necessarily indicative of the full range of activities it conducts.

Data in this article cover only affiliates in the sample, that is, the data have not been expanded to universe levels. However, data for affiliates in the sample accounted for almost all of the data for the universe of all U.S. affiliates. This is indicated by a comparison, based on BEA's 1974 benchmark survey of foreign direct investment in the United States, of 1974 data for the sample with 1974 data for the universe. After adjust-

ment for differences in coverage and definition between the 1974 and 1977 surveys, the data show that affiliates in the sample accounted for 93.5 percent of the total assets of the 1974 universe. The percentages were also high for other key items. (See technical note.)

Because the sample accounts for such a large portion of the affiliate universe, comparison of sample data with all-U.S. data for 1977 gives a good indication of the economic significance of U.S. affiliates relative to the total U.S. economy. By most measures, affiliates were small relative to the economy. For example, affiliates had 1.1 million employees, about 2 percent of the 67.8 million employees of all U.S. businesses (except banks); they owned 5.6 million acres of land, less than one-half of 1 percent of the 1,347.2 million privately owned acres in the United States. However, affiliates accounted for a relatively large share of total U.S. merchandise trade. Their exports, at \$24.1 billion, were 20 percent of the \$120.8 billion of total U.S. exports; their imports, at \$42.5 billion, were 28 percent of the \$151.7 billion of total U.S. imports. Affiliates' share of exports was large because several wholesale trade companies that had large grain exports were U.S. affiliates. Their share of imports was large because affiliates were relatively heavily concentrated in two wholesale trade industries-motor vehicles and metals and minerals—that accounted for a substantial portion of total U.S. imports.

Country by Industry Distribution

Total assets of U.S. affiliates in the sample were \$131.5 billion at yearend 1977 (table 1). Almost three-fourths of these assets were accounted for by affiliates with parents in five countries—the Netherlands, Canada, the United Kingdom, Germany, and Japan. Affiliates with parents in the Netherlands had the largest share—23 percent of the total.

Affiliates with parents in all developed countries combined accounted for 90 percent of total assets; those with parents in developing countries accounted for the remainder. For the developing countries, total assets were largely accounted for by affiliates with Latin American parents, particularly parents in the Netherlands Antilles, the Bahamas, Bermuda, and Panama (table 2).

^{2.} Pisheries are included in "ether."

^{4.} Bandamark data were published in U.S. Department of Commune. Foreign Direct Investment in the United States: Report of the Secretary of Communes to the Congress in Compliance with the Povelan Investment Study Act of 1874, (Public Law 69-679), Vet. 2, April 1976, and in "Bonohmark Survey of Foreign Direct Investment in the United States, 1874," "Employment and Employee Compensation of U.S. Affiliates of Foreign Companies, 1874," and "Gross Product of U.S. Affiliates of Foreign Companies" in the May 1974, December 1878, and January 1879 issues of the Survey, respectively.

^{5.} Employment for all U.S. husinesses (except banks) is from national income and product account table 6.7 in the July 1979 Spuyer. For the above comperison of employment and for comparisons later in the article of employment and orapioyee compensation, all U.S. employment (employee compensation) is equal to the U.S. total less employment (omployee compensation) for households, governments, and government enterprises. To impreve comparability, employment (employee compensation) for banks are excluded from the all-U.S. business total. AR-U.S. bandownscable date are from table I in James A. Lewis, Land Ownership in the United States, 1978, Agriculture Information Bulletin No. 436, U.S. Department of Agriculture Economics, Statisties, and Cooperative Service, Washington, D.C., April 1980. Privately owned land consists of hard owned by individuals, groups of individuals, or logal entities such as trusts, estates, and corporations. It evolutes land owned by Federal, State and local governments, and Indian lands managed in trust by the Bureau of Indian Affairs. Total U.S. merchandise trade is from international transactions accounts table 1 in the June 1979 Bunyay.

In classifying data by country of foreign parent, BEA uses the country of the first company outside the United States in a foreign chain of ownership. In some instances, the country of the first company differs from that of the ultimate (beneficial) owner. In particular, a large portion of the total assets of affiliates with parents in the Netherlands Antilles, the Bahamas, Bermuda, and Panema, and a smaller portion of the total assets of affiliates with parents in the Netherlands and Switzerland. represent investments owned beneficially by residents of other countries.

Over 80 percent of total assets were accounted for by four of the ten major industries shown in table 1-manufacturing (29 percent), wholesale trade (21 percent), petroleum (20 percent), and insurance (18 percent). Within each of these industries, the distribution by country of foreign parent was highly concentrated, particularly in petroleum and insurance. In petroleum, affiliates with parents in the Netherlands accounted for almost three-fourths of total assets. In insurance, affiliates with parents in Canada, the United Kingdom, and Switzerland accounted for over three-fourths of the total. Five countries accounted for over threefourths of total assets in both manufacturing and wholesale trade. In manufacturing, the five countries (ranked by size) were Germany, the United Kingdom, Canada, the Netherlands, and Switzerland. In wholesale trade, they were Japan, Germany, France, the United Kingdom, and the Netherlands. Japanese-owned affiliates alone accounted for 43 percent of total assets in wholesele trade.

Balance Sheet

The balance sheet for U.S. affiliates at yearend 1977 is presented in table 3. Of total assets of \$131.5 billion, net fixed assets were \$42.0 billion, or 32 percent. Trade accounts and notes receivable were 19 percent, inventories 17 percent, and investments 13 percent of the total. (Investments are mainly affiliates' security holdings and equity in unconsolidated businesses.)

Among industries, the composition of total assets largely reflects industry characteristics. For example, in goodsproducing industries that require relatively large amounts of capital (such as petroleum, mining, and manufacturing), or in industries where landownership is significant (such as real estate and

Table 2.—Selected Data of U.S. Affiliates for 1977, by Country of Fereign Percent 1

	Con- edidated	Bmploy-	Rm- ployee	Total	Fixed	Sales I	Mer- chandins (Mer- obsodite 4	Land are Tights	d mineral errod	Land and rights	
	s@lists	Junit -	compen- sation		Det		amorta	Importe	Total	Agricul-	Total	Agricul- Kurai P
	Ner	nber	<u></u>		Millione	of dollers		•		Thousan	ds of scree	
All countries	1,627	1, 122, 207	17,458	111,539	43,416	191, 77\$	24,195	42,441	6,684	3,442	28,847	1,637
Developed countries	1,649	969,857	15, 241	119, 384	37, 676	167, 348	31,774	40,558	6,442	3,440	27,893	1,313
Capeda	\$86	150,528	2,493	18,830	6, 237	17, 001	790	3, 438	1,400	765	9,359	(0)
Earspe	1,968	743,504	11,913	82,981	29, 487	101, 849	10,038	20,490	8,504	1,823	16,521	(0)
Ruropean Communities (i) Belgium and Luxembodry France Germany Italy Notherhands Demonth and Iroland United Eingdom	100 140 17 140	034, 204 10, 550 60, 771 131, 160 2, 960 187, 698 7, 783 284, 119	20, 117 215 1,010 1,835 48 2,413 90 3,892	72, 134 3, 424 8, 728 10, 420 20, 424 351 10, 030	27, 459 1, 661 1, 505 8, 417 17, 349 94 8, 905	14,400 14,400 14,400 14,400 23,957 23,957 39,473	0,784 (H4 (P) (H4 (P) 2374 (P) 1,288	17,066 1,247 1,064 4,073 60 0,047 307 8,870	1,530 (a) (b) 183 (b) 183 (b) 183 (c)	1.60 20 20 20 20 20 20 20 20 20 20 20 20 20	14.00 16.00 16.00	9 330
Other Borepa Sweden Switzeland Other		108,900 24,960 80,512 6,624	1,607 206 1,241 60	9, 949 1, 969 7, 409 564	2,046 354 1,467 267	12,845 8,088 0,826 487	816 163 726 18	3,034 1,167 1,694 173	45 5 11 119	991 4 34 186	(S)	(P) (P)
Jupan	830	66,174	921	16,613	1,000	48,879	10,418	10,889	=4	18		, 1
Australia, New Zanigad and South Africa	10	4,659	86	931	37	437	1	243	9	2	(*)	٠ (
Desgloping countries	270	152,364	2,174	19, 195	4,349	14,427	2,201	1, 563	578	474	161	326
Letin Amarica. Pananya Bahamas Barunda and British Islands, Caribbasa. Natherback Antilles Other	- 34	143,410 11,711 0,596 29,662 89,646 3,798	2,066 253 113 440 1,253	11, 597 1, 138 1, 502 3, 507 4, 677 882	4,083 909 982 739 3,976 53	13,468 8,661 885 2,700 7,974	2, Sel 115 (P) 163 (P) 164),800 280 363 625 407 220	908 908 94 950	453 (P) 284 (P)	(S)	(D) 201
Olher daveloping Larsel Other Middle East Other Africa, Aria, and Pacific		8,048 518 1,068 7,376	(E) 04	1,961 269 880 870	(G) 337 (G) 239	161 161 610	(S) 94	(P) (P)	98 88	(A)	9339	
Addendum: OPEO+	, ,	4,223	54	718	258	310	(P)	(0)	25	8		4

^{*}Less than 500 accus.

Dispressed to avoid disclosure of data of individual companies.

L. Sadades banks.

A versey number of indi-time and part-time employees.

A versey number of indi-time and part-time employees.

Excludes returns, discussing allowances, and sales end excise taxes.

Excludes returns, discussing allowances, and sales end excise taxes.

Experts are valued f.a.s. at the U.S. port of expertation; imports are valued Lo.s. at the oreign part of expertation. The data are classified by country of the U.S. affiliate's foreign parent, not by the destination of the experts or the erigin of the imports, i.e., experts or in-

perts shown for a perticular country may not be destined for or have originated from that country.

5. Consists of land used for crops, pasture, theses production and other egricultural por-

poses.

6. Countries in the Organization of Petroletin Exporting Countries (OPEC) are: Algeria Ernafor, Cabes, Indensits, Iran, Iraq, Kuwait, Libya, Nigaria, Qalar, Sendi Arabia Venezuela, and United Arab Emirate.

agriculture and forestry), net fixed assets were large shares of total assets. In industries that provide services (such as finance, except banking, and insurance), net fixed asset shares were small.

Total claims on affiliates' assets consisted of liabilities of \$90.7 billion (69 percent of the total) and owners' equity of \$40.8 billion. Of total liabilities, longterm debt accounted for 36 percent and trade accounts and notes payable for 31 percent. As was the case for total assets, differences among industries in the composition of total claims partly reflected industry characteristics. For example, in the industries mentioned where fixed assets were large shares of total assets, at least 70 percent of total claims were accounted for by owners' equity and long-term debt, reflecting the fact that fixed assets require relatively long-term financing.

Income Statement

U.S. affiliates' total income was \$183.6 billion (table 4). Almost all—99 percent was sales (or gross operating revenues). Sales were largely accounted for by affiliates in wholesale trade and manufacturing. Within wholesale trade, the three largest industries-farm-product raw materials, metals and minerals, and motor vehicles—each accounted for 20 percent or more of total sales. Almost one-half of the sales in wholesale trade were attributable to affiliates of Japanese parents. These affiliates accounted for two-thirds of all sales in motor vehicles wholesale trade and three-fifths of all sales in metals and minerals wholesale trade. In manufacturing, 36 percent of total sales were by chemical affiliates.

Total costs and expenses were \$179.8 billion. Almost 97 percent were oper-

ating expenses (costs of goods sold plus selling, general, and administrative expenses). U.S. income taxes, at \$3.3 billion, were less than 2 percent. Not income after tax—total income less total costs and expenses—was \$3.8 billion.

Selected Financial Data by Transactor

Data by transactor provide, for selected liabilities and current receivables, a breakdown showing to whom affiliates' liabilities are owed and from whom affiliates' receivables are due. Transactors are classified by whether they are U.S., affiliated foreign, or unaffiliated foreign persons. For liabilities, transactors are further cross-classified by whether they are banks or others.

Selected liabilities

Data by transactor are available for affiliates' current liabilities ("trade ac-

Liabilities and owners' equity

989

1,502

2,861

2.842

1, 124

187

(#)

4,975

(P)

104

3, 182

6.701

2,762

763

1,188

Table 3.-Balance Sheet of U.S. Affiliates at Yearend 1977 1

[Millions of dollars]

T./ahiketaa Total ijabili. Trade Other Other nccount and Other current assets Trede Other Other Envan-taries Invest-ments 1 Fixed Hoe and non-Ownersi equity metos roccia-BOU-dirtuni limbilequity Tytal notes payable All fodnetries..... 134. BUS 25, 376 3,227 22, 240 12, 491 17, 610 42.003 6,344 80,745 38, 411 10. HJ 34, 434 3, 525 49, 756 Agriculture and forestry !..... 700 84 117 888 73 821 133 291 × 270 Mining.... 127 470 2, 109 167 1,086 118 227 1,210 122 1, 60 1.386 26 297 80 Potrology 3, 148 763 2,006 080 817 16, 620 J, 402 16,000 8,252 L (የየ) £, 400 1, 470 B. 725 26, 834 Manufacturing. 4,680 87, 088 722 2,880 2,426 14,020 2.510 22, 240 A 612 4,780 D, SALL 1,977 15, 745 0.146 (D) (P) 203 10 1,816 485 햲; 1, 187 1.00 695 899 (P) 1, 162 707 (0) (0) 1,941 3,411 268 278 2, 825 1, 628 466 582 687 684 101 102 7,839 5,776 4, 261 3, 291 363 547 394 125 Drugs Other 167 85 76 200 (0) Primacy motal industries..... 4, 606 1, 048 3, 187 1, 294 5, 850 793 154 830 953), 128 2,048 089 1,824 1,858 8,416 1,527 226 666 825 1,450 (P) 71 268 (P) 1,096 244 48 Fabricated melal products Machinery, except chestrical Blectric and electronic equipment 50 200 117 21,926 4,208 6,663 4,410 7,664 12, 288 2, 669 8, 227 2, 090 4, 219 2, 782 460 765 652 885 848 158 229 144 343 9, 150 2, 145 1, 947 1, 611 3, 448 1, 659 334 309 322 536 467 104 20 163 155 3,745 (25 (84 0, 366 L 254 1,*57*8 212 0, 401 1,048 1,510 \$ 341 7 078 1 391 9,597 闘

Finance, except banking.....

Sammaneo.....

Real estate and combined offices.

Other....

3, 474

7, 283

16, 743

4, 802

4, 725

485

2,809

1, 382

320

775

20

483

192

52

68

1,120

C)

110

113

ш

145

175

4,099

100

588

2,612

9, 153

871

122

1,105

42

104

2,000

2, 291

6,682

LB, 991

1, 621

748

888

4, 781

806

454

207

101

L 784

100

(P)

241

080

1,123

167

161

Less than \$400,000.
 Empresset is avoid disclasure of data of individual companies.
 Examples banks.

Mainly security heldings and equity in unsensolidated businesses.
 Picheries are included in "other".

counts and notes psyable" plus "other current liabilities") and long-term debt (table 5). These liabilities, which were \$81.2 billion, accounted for 90 percent of affiliates' total liabilities.

Most of the affiliates' current liabilities and long-term debt-82 and 85 percent, respectively—were to U.S. persons. A large portion of affiliates' current liabilities resulted from purchases of goods, materials, and supplies on credit. The U.S. share of these habilities was large because the purchases were mainly from U.S. persons.6 The U.S. share of long-term debt was large probably because affiliates generally found borrowing in U.S. capital markets less expensive and more convenient than borrowing in foreign markets.

Virtually all of the U.S. liabilities were to unaffliated persons.7 Most of affiliates' liabilities to foreign persons were to affiliated companies (foreign parents and foreign affiliates of foreign parente).

Bank borrowing accounted for a significantly larger portion of affiliates' U.S. liabilities than of their foreign liabilities. Bank borrowing was almost 40 percent of affiliates' current liabilities and 27 percent of their long-term debt to U.S. persons, but only 15 percent of both their current liabilities and longterm debt to foreigners.

By industry, about two-thirds of affiliates' liabilities to U.S. persons were accounted for by affiliates in wholesale trade, manufacturing, and petroleum

(table 6). Almost three-fourths of affiliates' liabilities to foreign persons were accounted for by affiliates in wholesale trade and manufacturing. In both industries, foreign liabilities were mainly to affiliated persons—in wholesale trade, 75 percent, and in manufacturing, 86 percent.

In most industries, the composition by maturity of affiliates' foreign and U.S. liabilities was about the same. For example, in wholesale trade, current liabilities were 88 percent of foreign liabilities and 87 percent of U.S. liabilities; in manufacturing, the shares were 48 percent and 52 percent, respectively. Exceptions were petroleum, where ourrent liabilities were 64 percent of foreign liabilities but only 33 percent of U.S. liabilities, and retail trade, where current liabilities were 24 percent of foreign liabilities but 61 percent of U.S. liabilities.

Table 4.—Income Statement of U.S. Affiliates in 1977

		[Millione	of dollars) _							
		Inc	OED+			Costs and	expenses			Adda	odr
	Total	Sales :	Equity in net income of un- consoll- dated busi- nesses	Other.	Total	Oper- ating experi- ses	U.S. Income taxes	Other	Net income	Depre- ciation charges for the year	Depletion observes for the year
AR industries.	283 , 6 57	181,773	687	1, 157	171,743	174,084	8,243	2, 121	1,196	2,69)	233
Agriculture and forestry +	457	459	2	5	406	442	n	16	-29	15	(4)
Mixing	1,230	1,178	(P)	(P)	1,287	1, 150	17	at at	3	72	
Petrokum.	25, 635	25, 317	\$158	J.ed	24,207	22,740	1, 100	427	1,349	998	112
Manufacturing	4A, 16L	45,786	324	2012	44,992	43, 219	3,000	706	1,150	1,242	86
Food and kindred groducts	7, 473 1, 427	7,489 1,422	-13	25 4	7, 383 1, 560	7, 268 1, 486	97 46	16 24	61 89	53 51	(8)
Chemicals and ailled products. Industrial. Drugs Other:	14,027 10,495 1,992 2,140	14, 401 10, 261 1, 627 2, 129	60 62 1 (*)	86 62 5 38	14, 141 10, 151 1,883 2,007	13, 856 8, 680 1, 718 2, 607	846 1889 (P)	(3)	488 338 309 44	548 439 53 74	3000
Primary metal industries	1,758	6,417 1,148 3,664 4,676 7,379	22 →7 16 16	18 27 27 28 60	i, 329 1, 198 3, 525 4, 592 7, 268	6,166 1,147 3,419 4,439 0,931	116 83 71 120 240	. 80 8 36 33 108	128 40 91 126 318	1\$1 \$2 \$6 50 216	(*) 2 1 2 2
Wholesis trade	90, 480 17, 858 21, 040 28, 220 25, 442	99,069 17,746 21,860 26,182 25,282	(*) 08 6 10	820 113 23 85 150	89,837 17,056 21,793 25,178 25,190	59, 452 17, 353 23, 456 26, 007 24, 536	200 200 101 20 287	726 94 226 61 306	6 10 202 147 48 242	228 41 41 64 84	(°) 1
Retail trade	7,040	7,600		40	7,480	7, 221	1161	194	151	I15	(°)
Finance, except banking.	1,319	1,196	Į#Ł	20	2,187	1,032	41	45	202	4	(*)
Insurance	0,998	0,723	(2)	(P)	0,616	0,265	172	170	363	15	(*)
Real estate and combined affices	9292	797	,	5 4	936	816	132	71	-366	72	3
Other	2,841	2,611	-2	51	2,825	2,670	76	78	86	128	(P)

less than \$500,500 (±). Suppressed to avoid disclosure of data of individual companies.

^{6.} This statement is based on a comparison of offiliated imports with affiliates' "costs and expenses relating to operations" efter the latter were adjusted to eminde major cast items, such as employee componsation and depreciation, which are not for purchases of goods, meterials, or supplies.

^{7.} The breakdown of militates' U.S. Habilities between sufficient and unaffiliated U.S. persons is and shown in the table because reported liabilities to affiliated U.S. persons were negligible.

Suppressed to avoid disclosure of data of individual companies.
 Excludes transfer.
 Begindes returns, discounts, allowances, and sales and argue taxes.

Cost of goods sold plans selling, general, and administrative exposits.
 Includes minority interests in not incume of consolidated affiliates.
 Figures are included in "other".

Current receivables

Current receivables ("trade accounts and notes receivable" plus "other current receivables") were \$28.6 billion. Of this total, 84 percent were due from U.S. persons. The U.S. share was large because affiliates' sales, which generate most current receivables, were mainly to U.S. persons, (The ratio of affiliates' exports to affiliates' sales was 13 percent.)

Over 60 percent of affiliates' current receivables were accounted for by affiliates in wholesale trade and manufacturing. In wholesale trade, 74 percent of current receivables were due from U.S. persons and in manufacturing, 92 percent.

Landownership

Table 7 shows data on the gross book value of affiliates' land and on the number of acres of land and mineral rights owned and leased by affiliates (hereinafter referred to as acres owned and leased). The acreage data are further disaggregated to show separately the portion used for agricultural purposes, including timber production.8

For many industries in table 7, data on acres were suppressed to avoid disclosure of data for individual companies. as required by the confidentiality provisions of the International Investment Survey Act. The suppressions reflect the high degree of concentration of acres owned and leased among a few U.S. affiliates. The gross book values were less concentrated and, therefore, required fewer suppressions. The difference in concentration occurred because the gross book value of land owned by some affiliates was relatively small even though the number of acres owned was relatively large. For these affiliates, the cost per acre of land was

The gross book value of land held by affiliates at yearend 1977 was \$7.9 billion; affiliates owned 5.6 million acres and leased 28.8 million acres. Land used for agricultural purposes accounted for 3.1 million of the acres owned and 1.6 million of the acres leased. More than one-half of the agricultural land owned and more than one-fifth of that leased was probably timberland.

By industry

The distribution of the gross book value of land and of acres owned differed among industries. This difference occurred because the value of a given acre of land may vary according to its use and location and, due to historical cost valuation in combination with

Table 5.—Selected Financial Data of U.S. Affiliates at Yearend 1977, by Transactor ^t (Affiliants of dollars)

		*******	- 14		
	Tatal	Pest		tth ons	
		tion with U.S. per- sons ^s	All for- dgn per- rons	BB box- box- post very very very	Un- attili- ated lor- oign per- gons
Current liabilities and long-term debt, total	81,207	97,001	18,006	LO, 72L	2,883
Current liabilities*.	48 , 577	39,007	8,670	0,003	2,047
To banks To others	17, 014 31, 663	16, 745 24, 102	1,200 7,401	, 724 0, 079	765 1,322
Long-term debt	22,030	27, 691	6,080	4, 117	818
To banks To olliers	8,101 24,520	7,308 20,220	733 4, 203	173 3,045	500 268
Current receivables 1.	28,005	20,656	5,757	2, 160	2,278

rising land prices, the date purchased. Also, leased land that has been capitalized (primarily land with mineral rights) is reflected in gross book value but not in acres owned.

Over three-fourths of the gross book value of land was accounted for by affiliates in petroleum (with 89 percent), manufacturing (22 percent), and real estate (17 percent). Most of the gross book value in petroleum probably represents land devoted to oil and natural gas exploration and extraction. In manufacturing, more than one-half

Table 6.—Selected Financial Data of U.S. Affiliates at Yearend 1977, Major Industry by Transactor ! [MULLIONS of delibers]

	Corrent	Position	Position with U.S. persons			Position with foreign persons								
	lisbii- liies b and		Current	Long-	AJI	foreign pers	ions.		ed foreign p		VnsAlk	sted foreign	равон	
	long- turm dobt, total	Total		torm debt	Total	Current Hebil- ities	Long- term dobt	Total	Carrent labil- tica	Long- torm dobt	Total	Current lisbit- lites	Long- term debt	
All Industries	81, 207	67, 6 01	39,907	27,694	13,646	8,670	4,436	10,72E	6, 103	4, 117	2,865	2, \$67	818	
Agriculture and ferestry (Ministra Petroleum Manghasturing Wholsanie (unde	487 1,884 14,629	437 1,977 13,163 16,720 10,200	179 272 4,000 8,211 14,080	257 1, 045 8, 853 7, 510 2, 120	60 167 1, 437 4, 543 5, 255	(5) 913 2, 102 4, 013	20 (P) 523 2,351 012	28 (D) 1,045 3,001 3,064	(°) (°) 501 1,856 3,422	(P) 111 484 2,045 532	21 (°) 391 643 1,301	(n) 252 235 1,100	(0) (0) 30 204 111	
Rotali trade Pisareo, except bunking Insumese Roal criste Other	2, 124 5, 407	1,660 4,000 6,622 3,164 1,930	L, 02± 3, 6±0 0, 33± 740 1, 054	046 1, 440 2, 438 2, 424 892	455 410 193 871 407	110 204 (th) 152 250	345 153 (P) 420 241	(°) 282 (°) 367 424	103 (P) EL 228	(D) 83 (D) 271 201	(P) (P) 204 73	(P) 61 61 33	(P) 70 0 144 10	

Suppressed to avoid disclosure of data of individual companies.

Excludes banks.

^{2.} The gress book value of land is its historical cost before deduction of accumulated depletion. It includes the value of lossed land that has been conjustized. Acres owned and leased consist of surface rights and minarch rights to the impl. Mineral rights are the right to extract the minerals located bonesile the surface. They may be conveyed separately from surface rights and may be ofther developed or undeveloped. Acres of land and released rights owned or leased by an affiliate, as reported, reflect only the affiliate's interest in a particular track of land whom that interest is less then 100 porcent.

Bachidas banks.
 Foreign parents and foreign affiliates of foreign percents.
 Bonals the sum of "trade accordats and notes payable" and "other content liabilities" in the balance sheet.
 Equals the sum of "trade accounts and notes receivables" and "other correct receivables" in the balance sheet.

Excludes banks.
 Foreign parents and foreign affiliates of foreign parents.

Equals the sum of "trade accounts and notes payable" and "other current liabilities" in the balance shoot.

4. Fisheries are included in "other."

Table 7.—Land and Mineral Rights of U.S. Affiliates at Yearend 1977 t

	Gross		d mineral berwa		d mineral tessod
	book value:	Tole) Agricul-		Total	Agricul- tural
	Millions of dalkers	Thousands of acres			
All industries.	7,928	5,589	1,462	25,247	1, 637
Agriculture and forestry (201	1,906	1,451	(D)	(P)
Mining	430	445	(P)	1,735	(
Patroleum	2,005	629	2	27, 154	(2)
Manufacturing	L,705	L, 649	L, U\$B	4,511	660
Food sad kindred products. Paper and allied products.	370 (b)	\$4 1,004	7 995	(D) (D)	8
Chamicals and sitled products Industrial Drogs. Other.	571 442 20	247 (166 (0)	(P) 2 (D)		(*) 1
Primary metal industries. Fabricated metal products. Machinery, except electrical Ricotric and electronic equipment.	22 35	17 4 (b) (b) (b)	3633	€€€ 1	33333
Wholesale trade. Motor vehicles and automative parte and supplies. Metale and minerale. Form-product raw materials. Other	81 140	200 (3) (3)	ತಿಯತ್ತ	20 (2) (2)	333 3
Potali trade	160	2	(9)	ι	
Picanes, erespt banking	18	(a)	(P)	0	٠,
Identanes	46	2	1	1	. 1
Real estate and coroldned offices.	1,314	296	162	(P)	(P)
Ocher	411	(P)	(*)	3	, ', a

of the gross book value was accounted for by affiliates in chemicals and food products. Because several of the largest of these affiliates had substantial secondary operations in petroleum, most of the gross book value probably represents land used for petroleum or natural gas extraction. The gross book value in real estate largely represents ownership of commercial land, such as office building sites.

Acres owned were primarily accounted for by affiliates in agriculture and forestry (30 percent), manufacturing (29 percent), and petroleum (12 percent). Within manufacturing, acres owned were mainly attributable to affiliates in paper products and "other" manufacturing.

Most of the land that was used for agricultural purposes was owned by affiliates in agriculture and forestry and in manufacturing. About twothirds of the 1.5 million acres owned

by agriculture and forestry affiliates were in agriculture and one-third were in forestry. Of the land owned by affiliates in agriculture, almost twothirds was owned by affiliates whose major activity was livestock production and whose land was probably mainly pasture or range. Almost all of the remainder was owned by affiliates whose major activity was crop production.

In manufacturing, 84 percent of the 1.2 million agricultural acres owned were in paper products and 11 percent were in "other industries," mainly lumber and wood products. In both industries, land was probably largely timberland.

Of the 28.8 million acres leased by affiliates, most were devoted to the exploration for and extraction of fuels. Almost three-fourths of the total was leased by affiliates in petroleum, primarily for oil and natural gas extraction. Of the remainder, over 15 percent was leased by affiliates in manufacturing and 6 percent by those in mining. In manufacturing, where affiliates in food products and chemicals accounted for most of the total, the land was largely for exploration for and extraction of oil, natural gas, and coal. In mining, land was probably largely devoted to coal and uranium exploration and extraction.

Of the 1.6 million leased agricultural acres, over 45 percent were leased by affiliates in agriculture and forestry. The remainder was leased by affiliates in manufacturing and real estate. In agriculture and forestry, the affiliates that leased were mainly engaged in livestock production, and the land was probably largely pasture or range.

By State and region

Table 8 shows the gross book value of affiliates' land, acres owned, and acres leased classified by the State and region in which the land was located. (The regions shown in the table are the eight BEA regions). The total gross book value of land shown in table 8 is \$0.3 billion less than that shown in table 7. The difference is the value of land carried in balance sheet accounts other than in "fixed assets" or "other current assets," which is included in table 7 but not in table 8.

The gross book value in "other territories and offshore," at \$1.2 billion, was larger than that in any individual State. It was primarily accounted for by affiliates in petroleum and represented the value of leased offshore acreage devoted to oil and natural gas extraction. Among States, gross book value was largest in Texas (\$0.9 billion), California (\$0.8 billion), and Florida (\$0.4 billion). Among regions, it was largest in the Southeast (\$1.7 billion).

States in which affiliates owned the largest number of acres were (ranked by size) Tennessee, Nevada, Colorado, Wisconsin, and New Mexico. In Tennessee, over one-half of the 0.4 million acres were owned by affiliates manufacturing paper products and were probably largely timberland. Among regions, the number of acres owned by affiliates was largest in the Southeast (1.9 million acres).

<sup>Less than 500 seres.
Suppressed to avoid disclosure of data of individual companies.
Expludes banks.
Gross book value of land carried in all balance sheet asset accounts.
Land used for coops, Osstare, timber production, and other agricultural purposes.
Fisheries are included in "other".</sup>

States in which affiliates leased the ming. By region, leased acreage was largest number of acres were North largest in the Rocky Mountains; the Dakota, Montana, Texas, and Wyo- 9.4 million acres leased in this region

Table 3.—Land, Plant and Equipment at Yearand, and Employment of U.S. Affiliates for 1977, by State?

	Greet book value of land?	Tend en	d soloecal http	Orese book yalts of plant and	Employ-
	rend a	Owned	Located	équipment	
	Millione of dollars	Theusand	is of neces	Militers of delices	Number
Total	7, 100	5,500	30,841	52,712	1,122,24
New England.	tes	122	(9)	1,625	76,00
Connectiont. Maint. Many. Messachusetts. New Hampshire.	彩 粉 *	33333	33333	437 180 180 180	31, 54 4, 70 37, 64 8, 31
Rhode Island	9 24	(7)	l " ,	148	8,54 4,84
#####	778	щ	101	T,825	277, 31
Delawara Descript of Columbia Maryisand New Jersey New York Pannaylvania	28 38 32 22 23 23 24	(D) (D) 10 136 136	00 1 (0) 1	280 28 717 2,637 2,403 1,748	4, 94 1, 24 20, 42 80, 74 111, 87 87, 96
rest Lates	48#	454	2,443	7,462	249, 96
Nitrois. Indiana Mistigan Ohlo. Wisconin	[2 8 2 2 2 3 3 8	(P) 16 72 45 (P)	(E) 413 (E) 45	2,268 773 2,126 2,056 716	68, 59 24, 26 29, 71 53, 76 28, 72
'lelas	11.1	``439	2,546	3,150	55, 34
Iowa	14 14 14 14	11 25 290 54 (P) 29	(P) 126 28 (P) 00 1,600	284 1 146 1,874 800 08 122	8, 86 6, 45 18, 00 18, 00 1, 22 1, 22
Бийкай	1,711	1,858	3,396	12,622	244,16
Alabama Arkanaa Arkanaa Arkanaa Flanda Georgia Eantoeky Louisiana Misalssippi North Carolina South Carolina Tonnesses Virginia West Virginia	\$2.1.43 20 20 20 20 20 20 20 20 20 20 20 20 20	166 24 254 265 265 265 262 267 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	(P) 537 (P) 542 1,1345 1,1345 660 77 (P) 129 144 165	1, 146 102 749 1, 238 569 2, 810 300 1, 552 1, 684 1, 586 728	14, 19 34, 11 28, 99 14, 22 17, 77 15, 37 42, 32 28, 47 22, 33
enii vel	1,166	194	J, 176	6, 295	97,96
Arisona New Masico Oldahoma Tens	61 71 130 988	125 281 23 266	079 1,896 549 2, 45 6	811 157 508 6,319	6,00 1,50 6,00 63,60
locky Manustana	243	H L	1,378	1,527	10,4
Colorade	129 12 42 79 92	(D) 5 (D) 26 (D) 66	1,829 486 2,741 2,087 2,286	345 46 206 301 877	9, 85 1, 65 1, 25 5, 15 1, 86
www	554	127	2,149	4,935	127, 1
California. Novada. Oregoa. Washington.	766 L4 20 30	(D) 286 (D) 286	963 1,348 (P) (P)	2,246 64 123 504	110, 6: 1, 6: 4, 6: 10, 0:
Lingha Inwaii Carto Rho Cherto Rho Chertories and offshore	228 198 (C) 1,248 (P)	98 98 81	(b) (b) (b)	(P) 234 (P) 1,229 349	4, 33 0, 22 0, 61 7, 41

^{*}Less than 500 sores.

accounted for almost one-third of total land leased by affiliates.

Plant and Equipment

Table 9 shows the gross book value of U.S. affiliates' plant and equipment at yearend 1977, and affiliates' total plant and equipment expenditures and expentures for new plant and equipment during 1977. Affiliates' petroleum and mining exploration and development expenditures are shown in table 10.4

Table 9 .- Plant and Equipment of U.S. Affiliates in 1977

[Millions of dollars]

	Gross book value of plant and	for pla	ditures of and ment
	equip- ment at rearend	Total	New
All fedestries	53,792	P Saf	8, 965
Agriculture and forestry *	207	級	42
Mining	2,606	277	230
Patroleum	20, 450	2, 309	3, 130
Manufacturing	29, 692	2,765	2,340
Pood and kindred products Paper and allied products	1,794 1,079	267 168	214 350
Chomicals and allied products Industrial Drugs Other	9, 4 46 7, 30 L 930 1, 173	1, 160 816 904 189	964 766 78 130
Primary metal industries Eshricated metal products	L 052	230 58 187	2790 587 1777
other	L 185 2,912	172 415	166 267
Wholesals trade, Mater vehicles and automative	9, 267	526	441
parts and supplies. Metals and process Farm-product raw materials Other.	676 574 775 1, 362	110 84 89 249	95 81 75 207
Retail trade	1,698	314	211
Finance, except banking.	54	18	D
Insuranto.	243	24	17
Real estate and combined offices	2,421	794	206
Other	2, 1 9 8	262	220

^{1.} Excludes banks. 2. Fisheries are included in "other."

D Suppressed to avoid disclosure at data for individual companies.

Excindes begin.
 Land carried as "fired assets" or "other current assets" in the balance sheet.
 Average number of kell-time and part-time employees during the year.
 Escints lead and plant and equipment carried on the books of U.S. officials but located abroad, and employees of U.S. affiliates working abroad.

^{9.} The grees book value of plant and equipment is the histories) cost of plant and equipment, before the deduction of secondared degreciation. Plant and equipment expenditures are expenditures that are made to asquire, add is, or improve plant and equipment charged to fixed asset accounts, including capitalized mining and petreleum exploration and development costs. Expenditures are en a gross basissales and other dispositions are not petted against them. The value of plant and equipment belonging to a U.S. business enterprise that is countred by a U.S. additate is not included in the addition's plant and equipment sepanditures. The soquisities is considered to be the soquisition of equity in, rather than the purchase of the plant and equipment st, the enterprise by the stillate. However, the 1977 expenditures of the acquired enterprise are included. Petroloum and mining exploration and development expenditures are expenditurns, whether espensed or outsitelized, that ere made to find and extract all, natural gas, minurals, and metals.

Bv industry

The gross book value of affiliates' plant and equipment was \$53.8 billion. Capital-intensive goods-producing industries accounted for most of the total; over three-fourths was in manufacturing and petroleum. Of the \$20.7 billion in manufacturing, almost onehalf was in chemicals (mainly industrial chemicals).

Affiliates' tote! plant and equipment expenditures during 1977 were \$8.2

Tuble 10.—Exploration and Development Expenditures of U.S. Affiliates in 1977

(Millions of dollars)

	Expend- itures
Tetal	1,643
Mining	62
Patralegan	1, 394
Manufacturing.	178
Other	20

billion and were largely accounted for by affiliates in petroleum and manufacturing. Expenditures for new plant and equipment were \$6.9 billion, or \$4 percent of total expenditures. In most industries, such expenditures were at least 80 percent of the total. An exception was real estate, where expenditures for new plant and equipment were only 26 percent of total expenditures. In this industry, spending was largely for Durchases of existing commercial structures, such as office buildings.

Petroleum and mining exploration and development expenditures were \$1.6 billion. Petroleum affiliates' expenditures were 84 percent of the total. Manufacturing and mining affiliates accounted for most of the remainder.

By State and region

Of the total gross book value of plant and equipment, over 20 percent was in Alaska and Texas combined (table 8). Petroleum affiliates' plant and equipment was also largest in these two States. In Alaska, over 95 percent of the

Table 11.--Employment and Employee Compensation of U.S. Affiliates in 1977 !

		Empl	ayoo campta	milon	
	Employ- ment	Total	Wages and salaries	Employee benefits	
	Number	Millions of Golletz			
All Industries.	1,122,20	17,458	14,696	2,76	
Agriculture and forestry	7,000	101	84	L1	
Microsoft Control of the Control of	14,863	205	222	* *	
Petroleum	101, 840	2,084	1,659	301	
Manufecturing	607,847	0,689	8, 278	1,881	
Feed and kindred products. Paper and alfed products.	79,848 14,742	1, 166 268	966 217	289 45	
Chemicals and allied products Industrial Deuge Other		2, 178 2, 254 562 418	2, 688 1, 889 420 880	\$10 863 81 82	
Primery metal industries	18 M3	1, 109 307 667 1, 116 1, 818	914 262 719 966 1,569	100 100 100 200	
Whelesale trade Motor vehicles and automotive parts and supplies. Motals and substals Farm-product raw materials. Other	141,067 21,244 19,834 22,663 77,836	2, 501 375 387 885 1, 154	1, 968 827 834 224 996	217 46 67 68 154	
Betell trade	128,066	1,806	1, 198	188	
Finance, except banking	8,411	142	126	11	
Towarton co.	34,464	472	435	67	
Resi estate and combined offices	6,027	110	96	16	
Other.	60,818	827	718	114	

total was owned by petroleum affiliates: their plant and equipment mainly consisted of facilities for extracting and transporting crude oil. In Texas, almost two-thirds of the total was owned by petroleum affiliates.

The gross book value of manufacturing affiliates' plant and equipment was largest in New Jersey and Texas. In both States, chemical affiliates accounted for most of the manufacturing total.

By region, the gross book value of affiliates' plant and equipment was largest in the Southeast (\$12.8 billion). In this region, over one-half of the total was in manufacturing.

Employment and Employee Compensation

Table 11 shows employment and employee compensation of U.S. affiliates. Employment is the average number of full-time and part-time employees on affiliates' payrolls during 1977. Employee compensation consists of wages and salaries and employee benefits. Wages and salaries are the monetary remuneration of employees including salaries of corporate officers, commissions, and bonuses-and payments in kind. Employee benefits consist of employer contributions to employees' social insurance, private pension plans, and welfare funds.

Employment

By industry.—Affiliates employed 1,122,207 persons in 1977. Over onehalf of the total was in manufacturing, largely in chemicals. Other industries where employment was relatively large were wholesale trade (with 12 percent of the total), retail trade (11 percent), and petroleum (9 percent).

Differences among industries between the distribution of employment and of the gross book value of plant and equipment reflect differences in the capital intensity of production (measured as the amount of capital used per worker). For example, petroleum affiliates, whose production is highly capital-intensive, accounted for 38 percent of the gross book value of plant and equipment but only 9 percent of the employment. Similarly, within manufacturing, chemical affiliates, whose production is also

Rudodes banks.
 Average mamber of full-time and pert-time employees.
 Fisheries are included in "other".

highly capital-intensive, accounted for 46 percent of the plant and equipment but only 30 percent of the employment.

By State and region.—Affiliates' employment was largest in New York and California, each with 10 percent of the total, and New Jersey, with 7 percent. Manufacturing affiliates' employment was also largest in these three States. In New Jersey, 62 percent of total employment was in manufacturing; in California and New York, the percentages were 50 and 48, respectively. Wholesale trade affiliates' employment was largest in California. Employment of retail trade and petroleum affiliates was largest in New York and Texas, respectively.

By region, one-fourth of affiliates' employment was in the Mideast. Over one-half of the employees in this region were in manufacturing.

Compensation

Employee compensation was \$17.5 billion. Wages and salaries were \$14.7 billion, or 84 percent of compensation, and employee benefits were the remainder. Among industries, the wages and salaries share of total compensation ranged from 73 percent in mining to 90 percent in finance, except banking.

Annual compensation per employee was \$15,577. Compensation rates were highest in finance, except banking (\$22,156) and lowest in retail trade (\$10,127). In manufacturing, annual compensation per employee was \$15,929, ranging from \$13,750 in electrical machinery to \$18,087 in nonelectrical machinery. Differences in compensation rates may partly reflect differences among industries in the portion of total employment accounted for by part-time employees. Also, they may partly reflect differences among industries in the portion of total employment accounted for by production workers, because annual compensation rates of production workers differ considerably from those of nonproduction workers. One way to correct for these differences is to compare hourly wage rates of production workers alone.

Hourly wage rates

Table 12 shows employment and also wages and salaries of production and nonproduction workers for manufacturing affiliates only. For production workers, data on hours worked and hourly wage rates are shown as well.

Production workers in manufacturing are the employees, up to and including working foremen, who are involved in the physical production, handling, and storage of goods and related services. Hours worked are annual hours per production worker. They exclude hours paid for holidays, vacations, sick leave, and other paid leave. Hourly wage rates of production workers were calculated by dividing annual wages and salaries by annual hours worked.

The hourly wage rate of production workers in manufacturing was \$5.81. In chemicals, which had the largest number of production workers, the rate was \$5.71. Wage rates were highest in non-electrical machinery (\$6.98) and lowest in electrical machinery (\$4.54).

Differences among industries in hourly wage rates may partly reflect differences in the average skill levels of production workers. For example, in nonelectrical machinery, most production workers were probably employed in fabrication and milling of metals, operations that require relatively high skill levels. In electrical machinery, on the other hand, most production workers were probably employed in assembly of electronic components, an operation that requires somewhat lower skill levels. Differences among industries may also reflect differences in the degree to which production workers were unionized, the amount of overtime worked, and the geographic location of manufacturing operations.

Merchandise Trade

Data on U.S. affiliates' merchandise trade are presented in table 13. Affiliate trade refers to the physical movement of goods between the United States and foreign countries, rather than to changes in the ownership of goods. For example, if the title to goods is transferred by a U.S. affiliate to its foreign parent, but the goods remain in the United States, no export should be reported. Similarly, if a U.S. affiliate takes title to goods located outside the United States that are not actually shipped to the United States, no import should be reported. Exports and imports are valued free alongside ship (f.a.s.) at the port of exportation. The data are classified by industry of affiliate; trade data disaggregated by commodity were not collected in the sample SHITVEY.

Table 12.—Employment and Wages and Science of U.S. Manufacturing Affiliates in 1977

	E	byleymen	' ا	₩a	ee and mi	ories	Addenda: for pro- duction workers		
	Tota)	Produc- tion workers	Nampeo- duction wackers	Total	Produc- tion workers	Neopro- duction workers	Ammal bouts per Votker	Wages and saluries per betar	
		Number		МШ	Hone of dol	itare	Hours	Dollare	
Margiethering, total	617,647	207,844	220, 113	0,278	4,270	3,999	1,902	5,0	
Food and kindred products	79, 346	55,921	25,426	958	500	354	L, OLE	6.4	
Paper and allied products	14,743	11,173	3,571	217	159	67	2,064	6.1	
Obspringly. Industrial. Drigs. Other.	182, 825 135, 844 24, 266 22, 200	97,984 78,484 9,970 9,530	64, 338 67, 356 14, 290 12, 679	2,068 1,899 420 269	L 134 891 117 125	1,534 997 908 234	2,028 2,037 1,987 1,980	5.7 5.5 5.9 6.5	
Primary metal industries	61,539	44,124	17, 415	915	577	339	1, ИІ	6.7	
Patricuted mutal products	10,685	12,792	5,90L	252	185	**	2,018	4.	
Machinery, except electrical	49,040	27, 928	31, 120	789	341	358	1,863	4,	
Electric and electronic equipment	81,249	45,625	35,794	985	260	00a.	1,868	4,5	
Other	180, 696	94, 176	36,817	1,583	958	906	1,918	L 5.1	

^{1.} Average oursider of full-time and part-time employees.

^{30.} Industries either than manufacturing are not shown in table \$2 because of the uneven quality of the data reported to BEA for neumanniacturing addition. Many of these additions do not normally distinguish between production workers and nemproduction workers in their own moments. Also, some at these additions' amplayees, such as settern to wholesale and retail trade, who are classified as production workers teacher amount selectes rather than hourly wages, so that their hours worked are not recorded.

Table 13.—Merchandise Trade of U.S. Affiliates in 1977, by Industry Affiliate 1 [Millions of dollars]

·		Exporta ³			Importa+	
	Total	T'e sufficied for- oigners ?	To unst- illisted straigners	Total	Prom affiliated for- eigners :	From Vani- Minted foreigners
All Industries	24,136	11,84	12,770	42,541	28, 364	14,177
Agriculture and (westry 1	17	(10)	(e)	1	l ı	(*)
Mining	254	(e)	(P)	128	(D)	(P)
Petroleum	812	686	254	0, 126	2, 128	3,105
Menufestoring	a, 169	1,275	1,693	4,000	4,075	960
Food and kindred products	(P)	(ts)	(D) 204	758 274	(P) (22	(D) 834
Chemicals and slited products	984 453 129 182	376 199 (0) (0)	\$39 480 (66)	894 681 109 124	739 574 (P)	(C)
Printery natel industries. Fabricated instal products. Machinary, except electrical Sheefic and electronic equipment. Other	(⁰) 23 589 534 474	(b) 9 715 161 208	170 14 274 186 248	718 161 745 842 566	592 184 684 826 (P)	120 10 64 (U)
Wholesele trade. Motor vehicles and autometive peris and supplies. Motals and admenia. Farm-product new materials. Other)6, 418 (0) 4,075 11, 164 (2)	8, 122 (5) 2, 812 3, 787 (7)	10,243 (5) 1,284 7,277 (5)	30,569 11,068 0,657 4,205 6,623	21,364 (0) 4,471 974 (4)	8,722 (P) 2,394 3,231 (P)
Retail trade	198	(10)	(0)	263	128	135
Finance, except benking	(P)	۰	(0)	(P)	3	(D)
Institute	(*)	(*)		(*)	(f)	.
Heal state and combined officer	(P)	(D)	(D)	(D)	(9)	(P)
Other	*	և	18	(D)	45	(9)

U.S. offiliates had exports of \$24.1 billion and imports of \$42.5 billion in 1977. About one-half of the exports were to affiliated foreigners and twothirds of the imports were from affiliated foreigners. Wholesale trade affiliates accounted for most of both exports and imports.

Wholesale trade affiliates' exports, at \$19.4 billion, were 80 percent of total exports. Within wholesale trade, affiliates in farm-product raw materials and in metals and minerals accounted for 57 and 21 percent of the total, respectively. Almost two-thirds of the exports in farm-product raw materials were to unaffiliated foreigners, and were probably mainly grain shipments by Frenchand Japanese-owned affiliates; the former shipped over one-half and the latter over one-fourth of the total. In

metals and minerals, exports were mainly to affiliated foreigners. Japaneseowned affiliates shipped four-fifths of

Wholesale trade affiliates' imports. at \$30.6 billion, were 72 percent of total imports. Within wholesale trade, 36 percent were accounted for by affiliates in motor vehicles and 22 percent by affiliates in metals and minerals. About four-fifths of the imports in motor vehicles were from affiliated foreigners. Japanese-owned affiliates accounted for two-thirds and German-owned affiliates for one-fourth of the industry total. Two-thirds of the imports in metals and minerals were from affiliated foreigners. About one-half of the imports in this industry were attributable to Japanese-owned affiliates.

Research and Development Expenditures

Expenditures by affiliates for research and development (R. & D.) consist of all costs incurred for R. & D., including depreciation, wages and salaries, taxes, costs of materials and supplies, and allocated overhead costs. R. & D. performed by others for affiliates is included; R. & D. performed by affliates for others is excluded.

Affiliates' R. & D. expenditures were \$898 million (table 14). Spending was mainly by affiliates in manufacturing (79 percent of the total) and petroleum (12 percent). In manufacturing, affilistes in chemicals accounted for 65 percent and those in machinery for 19 percent of expanditures:

By country, affiliates with parents in the developed countries accounted for over 83 percent of the total. Spending by affiliates with parents in the Netherlands, at \$230 million, was particularly large.

Growth, 1974-77

Data similar to those presented in this article for 1977 were collected in BEA's 1974 benchmark survey of foreign direct investment in the United States. Differences in coverage and definitions between the 1974 benchmark survey and the 1977 sample survey, as well as revisions to the 1974 data made after publication, preclude direct comparison of published data from the two surveys. However, it is possible to adjust 1974 data to improve comparability. (See the technical note for a discussion of the differences between the 1974 and 1977 data and a description of the adjustments to the 1974 data.) The adjusted 1974 data and the 1977 data from the sample survey were used to calculate growth rates for a number of key items at the all-industry level. The resulting compound annual rates of growth for 1974-77 are shown in the accompanying tabulation.

	Per-
Total meets Net fixed meets Salas Employee compensation Employee tompensation Acres of land qud mineral rights awadd	速 B B B B B B B B B B B B B B B B B B B

Less then \$300,000.
 Suppressed to avoid disclosure of data of individual compenies.
 Experies are valued fa.s. at the U.S. pert of expertation; imports are valued f.s.s. at the fareign part of expertation.
 Experts are valued fa.s. at the U.S. pert of expertation; imports are valued f.s.s. at the fareign part of expertation.
 Finding parents and torsign affiliates of foreign parents.
 Finding parents are included in "other".

The considerable variation in annual rates of growth among the items reflected in part differential effects of inflation, changing industry mix, and cyclical economic developments. The lowest rate of growth-4.5 percentwas in employment. The next lowest— 6 nercent-was in acres of land owned. Because neither employment nor acres owned are measured in dollars, their growth rates were not directly affected by inflation. The growth rates of each of the other items-total assets, net fixed assets, sales, and employee compensation—were directly affected by inflation.

Growth in affiliate employment was slower than 4.5 percent if a rough adjustment is made to account for a difference in how employment was measured in the 1974 and 1977 surveys. (A more precise adjustment is not possible because necessary data are not available.) In the 1974 survey, employment was measured as the number of full-time equivalent (FTE) employees. FTE employment counts a part-time employee as a percentage of a full-time employee. with the percentage depending on the portion of a full-time schedule worked. In 1977, employment was measured as average full-time and part-time (FT-PT) employment; by this measure. part-time employees are counted on the same basis as full-time employees. As a result, employment in the 1974 survey is lower than it would have been if measured on the 1977 basis. Although FT-PT employment of affiliates in 1974 is not known, it can be roughly eatimated using data for all U.S. businesses (except banks). Based on this rough estimate, growth in affiliate employment was about 3 percent.11

Growth in affiliate employment outpaced the 1.6-percent annual rate of growth in employment of all U.S. businesses (except banks) for the 1974-77 period. As a result, affiliates accounted for a slightly higher portion of

Table 14.—Research and Development

Expenditures of U.S. Affiliates in 1977					
(MSliens of dollars)					
	Expend- itures				
Total.	IM				
By industry					
Agriculture and forestry 4	, ,				
Mining	16				
Potcolegm	tu				
Manufactoring	709				
Pood and kindered products	37 1				
Ohamicale and ellied products	(A)				
Printery metal Industries Fabricated metal preducts Machinery, except electrical Electric and electronic equipment	18 29 61 65 45				
Wholesele trado	(P) 24 (P) 24				
Retail trade	(D)				
Finance, except benking.	(2)				
Therefore the second se	•				
Real estate and combined offices	2				
*** ··					

*Lear than \$30,000.

D Suppresses to avoid discloeurs of data of individual companies.

1. Excludes hantes.

2. Fighartes are included in "other".

743

166

183

Developing countries.....

Developed countries.....

Canada
Belgium and Luxembourg
France

France
Germany
Nethoriands
United Kingdom
Switzerland
Japon
Other

Latin America.....

employment for all U.S. businesses (except banks) in 1977 than in 1974.

Employee compensation of affiliates grew at an annual rate of 13.2 percent. In contrast, employee compensation for all U.S. businesses (except banks) grew at a 9.9-percent rate over the same period.12

Total assets grew at an annual rate of 12.9 percent; net fixed assets grew somewhat faster, 15.7 percent. Both rates reflect the impact of inflation. The

higher rate for net fixed assets partly reflects the effect of major expansions by several existing affiliates. These affiliates had larger increases in net fixed assets than in other assets, such as inventories and receivables, because new production associated with these expansions was not yet fully underway by 1977. Also, relatively large purchases of land and other real estate would tend to raise net fixed assets relative to other asset categories.

Sales grew at an annual rate of 11.0 percent, somewhat slower than total assets and net fixed assets. Inflation would be expected to have a greater impact on sales, which are valued in current dollars, than on net fixed assets (and, therefore, on total assets), which are valued at historical cost. That sales grew more slowly than not fixed assets in part reflects the major expansion by existing affiliates mentioned above, which, by 1977, had not yet been accompanied by corresponding increases in sales. Similarly, affiliates newly established since 1974 may have added substantial net fixed assets to the affiliate total but may not have yet contributed significantly to sales. Finally, sales may have grown more slowly than net fixed assets because land and other real estate purchases directly increase net fixed assets but may have a limited impact on sales.

Technical Note

The data in this article are for the sample of U.S. affiliates of foreign companies that reported in BEA's Interim Survey of Foreign Direct Investment in the United States, 1977. Similar and more detailed data for the universe of all U.S. affiliates were collected in BEA's 1974 benchmark survey of foreign direct investment in the United States. There are differences in coverage and definitions between the two surveys, in addition, revisions to the 1974 universe data were made after publication. This note discusses the differences and describes adjustments to the 1974 data that are needed to improve comparability. Estimates of the portion of the 1974 universe of all U.S. affiliates covered by the sample and of 1974-77 growth are provided, based on adjusted data for a number of key items.

U. PT-PT and FTE employment for all U.S. businesses (emopt banks) are from mational freshus and product account tables 6.7 and 6.8, respectively, in the July 1978 Sunvey. The difference between FT-PT and FTE employment for sit U.S. businesses (except banks) varied widely by industry. These differences were used in deriving the estimate of 1974 affiliate ampleyment on an PT-PT busis. Comparison of the 1974 estimate and 1977 reported data for adulate PT-PT tunployment results in the 3-percent growth rate noted above.

^{19. 1074-77} grewth in employment and employee compensection for all U.S. beginnesses (except banks) are from mattered income and product areannt tables 6.7 and 6.5, respectively, to the July 1974 and July 1979 Squveys.

Table A.--Coverage of 1977 Sample and 1974-77 Growth

	Total amets	Fixed ample, and	Antes	Ran- playee sation	Busploy- ment	Land and mineral rights owned
<u> </u>	Millions of dollars				Number	Then- gods of screen
1974 data fort				· ·		
I. Universe no published	174, 272	25,364	346,778	13,200	1,063,433	4,000
Less: not effect of definitional and statistical revisions after publication Change in consultation rates.	20,777 13,031	25	3, 876 6, 866	180	\$, 1 2 1	•
· V##	9,146	26	-1,090	300	4, 131	40
S. Less: banks.	54,788	299	4, 317	288	25, 964	(*)
i. Less: deaths	0,969	8,078	A, 790	843	09, 353	634
 Equals: sullister that reported in 1974 survey that were potentially subject to reporting in 1977 survey 	89,748	21,988	182, 849	12,098	983, 972	4, 180
6. Leen: affiliates that did not report in 1977 survey	5,878	1, 252	4,000	772	09,541	10
7. Equals: militates that reported in both 1974 and 1977 mirveys	83, 870	24,670	197, ekt	11,326	911, 122	4,081
1977 data forç						
 Additional that reported in both 1974 and 1977 curveys 	1110, 205	37,403	168, 171	14,350	978, 869	4,500
D. Ping: births	114,189	4,616	13,009	2,000	148,688	1,07
6. Equals: all affiliates that reported in 1977 survey	120,554	42,018	161,778	17, 458	1, 822, 207	5,680
Sample coverage:	1					
 11. 1974 thin for sample as percent of 1974 this for potential universe (line 7.+)ine 5) 	93.5	DAG	94.2	91.4	92.0	96.1
Growth from 1974 to 2077, incheding double in the date for 1974 and bieths in the date for 1977,					1	
2. Percent change \(\frac{\text{time Ni - (line 4- time 7)}}{\text{line 4- time 7}}\]	49.7	11.3	86. 1	48.9	14.2	19.
19. Competited names? cute of growth	12.0	16.4	18.8	12.0	26.5	4.

*Less than 500 cores.

E. To improve comparability with 1974 data, 1977 data for total assets are adjusted to eliminate current receivables due from U.S. parents and U.S. effiliates of foreign parents (see fortunts 15 to taxt). The amount of the adjustment is \$113 million in line 8, \$73 million in line 8, \$43 million in line 8, \$43 million and the total exact figure shown in line 16 (\$120,554 million) equals the value of total exact above in table 1 (\$111,500 million).

2. If a rough adjustment is made to exacting for a difference in law amployment was measured in the 1974 and 1977 surveys, sommal growth in employment was about 3 percent. See test for discussion.

The first panel of table A (lines 1-7) shows 1974 benchmark survey data for the key items and the adjustments needed to improve comparability with 1977 sample data. Line 1 shows 1974 benchmark data, as published.13 Line 2 is the net adjustment for definitional and statistical revisions made after publication of the 1974 data. It consists of two parts—adjustments to reflect a change in consolidation rules (line 2a) and other adjustments (line 2b).

In the 1974 benchmark survey, reporting on a consolidated basis was generally not permitted, i.e., a separate report was required from each U.S. affiliate. In the 1977 sample survey,

U.S. affiliates were required to report on a consolidated basis; the consolidation for a given affiliate had to include all other affiliates owned more than 50 percent by that affiliate. The change in rules was made to climinate duplication of interaffiliate transactions in certain items, as well as to reduce respondents' reporting burden.

Of the items shown, the change in consolidation rules affects only total assets and sales. The 1974 data for these items are adjusted by subtracting from the published totals available data on interaffiliate assets and sales that would have been largely eliminated in consolidation if the 1974 reports had been filed on a consolidated basis. For total assets, the adjustment of \$13,631 million is the sum of (1) equity investment in other U.S. affiliates (\$9.575 million) and (2) current receivables (\$2,759 million) and noncurrent receivables and investments (\$1,297 million) due from U.S. parents and U.S. affiliates of foreign parents. For sales, the adjustment of \$6,565 million represents the sum, across all affiliates, of sales by each affiliate to other U.S. affiliates of its foreign Derent.H

The change in consolidation rules also affected industry classification of affiliates. In both the 1974 benchmark and 1977 sample surveys, affiliates were classified by industry based on the distribution of their sales. In the 1977 sample survey, affiliates reporting as one consolidated entity would have been classified in the single industry in which that consolidated entity's sales were largest. In the 1974 benchmark survey, on the other hand, the same affiliates may have been classified in a number of different industries. determined by the industries in which the individual affiliates' sales were largest. Thus, data below the all-industries level are not comparable for 1974 and 1977.

Line 2b represents the net amount of all other definitional and statistical revisions made after publication of the 1974 benchmark data. Definitional changes include: (i) the removal from direct investment of U.S. branch stations, ticket offices, and port facilities of foreign airlines and ship operators that service only their foreign parent companies; and (2) the removal from foreign direct investment in the United

(Continued on page 55)

14. Date used to adjust total assets are from tables G-7 and H-1 in the 1974 bearinmark survey publication cited is fections 13. Data used to edjust sales were collected in the 1974 benehmerk survey but wore not published.

^{12.} Three data are as published in U.S. Department of Commerce, Foreign Direct Imperiment in the Colled States: Report of the Secretary of Commerce in the Congress in Compilonce with the Paraign Inscatment Study Art of 1974 (Public Lew 63-670), Volume 2, April 1978,

Subtracting the full amount of inters Whate assets and calco probably overadjusts the 1974 data because a portion may reflect transmittens with unconsolidated U.S. stillistes that would not have been eliminated during consolidation. Overadjustment of the 1974 data would tend to overstate cellmeted 1974-77 growth in total agests and miles. For total amets, any such overadjustment is partly offset by subtract; ing from 1977 total arrests 1977 corrent receivables does from U.S. parents and U.S. affiliates of fereign percents (see factnote 1 to table A). Data on equity investment in other U.S. affijistes and un nort-correct receivables and investments that from U.S. perents and U.S. stillistes of foreign parents west not collected in 1977. For sales, an adjustment to 1977 date is possible because data on interadillate salas were aut collected. For both total assets and sales, the impact of overadjust ment on the growth shown in lines 12 and 15 of table A is believed to be email.

(Continued from page 44)

States of data for a large U.S.-incorporated petroleum company operating in the Middle East. (For a discussion of the latter change, see the October 1977 Survey, p. 36.) Statistical revisions include corrections to the published 1974 data and inclusion of data from reports received after publication.

Line 3 shows 1974 data for U.S. affiliates in banking. Bank affiliates were not covered by the 1977 sample survey because similar data for them were collected by the Federal Reserve System.¹⁵

"Deaths," shown in line 4, represent 1974 data for U.S. companies that were affiliates (owned 10-percent or more by foreigners) in 1974 but were liquidated or sold, or those in which foreign ownership was reduced to less than 10 percent, by 1977. Because these companies would not have been part of the 1977 direct investment universe, their data were excluded from the 1974 benchmark data for purposes of estimating the coverage of the universe accounted for by the 1977 sample.

After all adjustments, the remainder, shown in line 5, represents revised 1974 data for all affiliates that potentially could have reported in 1977. Line 6 shows 1974 data for affiliates in this group that did not report in 1977, primarily because they were exempt ¹⁶ or were liquidated or sold after 1977, but before 1977 report forms were mailed out, so that a report could not be secured. 1974 data for U.S. affiliates that reported in both the 1974 and 1977 surveys are shown in line 7.

The second panel of table A (lines 8-10) shows 1977 sample survey data. Line 8 shows data for affiliates that reported in both the 1974 and 1977 surveys. Line 9, "births," shows data for

affiliates that entered the direct investment universe after 1974. Line 10, the sum of lines 8 and 9, is total sample data as published in this article.

The portion of the universe covered by the 1977 sample is estimated by dividing 1974 data for affiliates that reported in both the 1974 and 1977 surveys (line 7) by 1974 data for all affiliates that were potentially subject to reporting in the 1977 survey (line 5). The results show that coverage of the sample was quite high—ranging from 92.9 percent for employment to 96.2 percent for sales. Thus, the sample date presented in this article, while not expanded to universe levels, are reasonable estimates of total foreign direct investment activity in the United States in 1977.

Growth from 1974 to 1977 is shown in line 12. For each item, it is calculated as the percent increase in 1977 data for affiliates that reported in the sample survey, including data for "births," over 1974 data for affiliates that reported in both the 1974 and 1977 surveys plus 1974 data for "deaths." Line 13 shows compound annual rates of growth.

^{15.} See fostnete 3.

^{18.} In the 1877 survey, a U.A. süllete, as consolidated, was exempt if:

Beach of the following three items for the U.S. affiliate (not the foreign parent's there) was between -34 million and +45 million during 277;

⁽¹⁾ Total esseta,

⁽²⁾ Net salar or gross operating revenues, evoluting substituted, and

⁽³⁾ Not become after provision for U.S. (necesse taxue) and b. The U.S. allihote did not own 300 series or more of U.S. land during 1977. (If the U.S. allihote owned 200 series or more of U.S. land, it was required to report regardless of the value of U.S. land, it was required to report regardless of the value of its assets, sales, or not income.)